



Georgia Emergency Operations Plan

Emergency Support Function # 3 Annex **Public Works & Engineering**



2015

ESF Coordinator and Support Agencies

ESF Coordinator

Georgia Department of Natural Resources

Primary Agency

*Georgia Department of Natural Resources
Georgia Department of Transportation*

Support Agencies

*American Red Cross
Board of Regents of the University System of Georgia
Georgia Building Authority
Georgia Department of Administrative Services
Georgia Department of Agriculture
Georgia Department of Community Affairs
Georgia Department of Corrections
Georgia Department of Defense
Georgia Department of Labor
Georgia Department of Public Health
Georgia Environmental Finance Authority
Georgia Forestry Commission
Georgia Power
Georgia Public Service Commission
Georgia State Finance and Investment Commission
Georgia Voluntary Organizations Active in Disaster*

1.0 Introduction

1.1 Purpose

This ESF Annex supports the Georgia Emergency Operations Plan (GEOP) and complies with standards set forth in the National Response Framework (NRF), ESF#3: Public Works and Engineering Annex. This document provides guidance to prepare for, respond to, recover from, and mitigate the effects of a disaster or emergency on Georgia's essential public infrastructure and services. It is the strategic plan for ESF#3 – Public Works and Engineering. ESF#3 is designed to coordinate the state's response to disasters during which there is a disruption or disconnection of essential services or infrastructure, including water systems, sewer systems, electricity, public roadways, and public structures. This document is supported by several Appendices, Tabs, and Standard Operational Guidelines (SOGs).

1.2 Scope

The Georgia Department of Natural Resources (DNR) Environmental Protection Division (EPD) is responsible for public works and the coordination of safe water and sewer systems during disaster-related incidents. During non-disaster times, the Watershed Protection Branch of EPD issues permits for local governments and industry to discharge treated wastewater, and to local governments, industry, farmers and subdivisions for surface water and groundwater withdrawals.

The branch's responsibilities include:

- Ensuring that Georgia's public water systems are operating properly to supply safe drinking water to citizens.
- Working to control non-point sources of pollution, including erosion and sedimentation.
- Managing storm water discharge.
- Water quality monitoring and modeling of Georgia's waterways.

The Georgia Department of Transportation (GDOT) is tasked with engineering responsibilities and is charged with coordinating the repair, replacement and restoration of public infrastructure (including public roadways and buildings) that have been damaged during a disaster. During normal operating periods, GDOT works on a variety of public transportation projects, including:

- Planning, constructing, maintaining and improving the state's roads and bridges.
- Providing planning and financial support for other multi-modal transportation such as mass transit and airports.
- Providing airport and air safety planning.

2.0 Concept of Operations

2.1 General

Through continuous coordination, the Primary and Support Agencies work to ensure the following capabilities:

- Conduct pre-incident and post-incident assessments of public infrastructure within Georgia.
- Prioritize and initiate recovery efforts to restore and repair damage to public infrastructure.
- Provide technical assistance, to include engineering expertise and construction management.
- Provide assistance and coordination for the development and implementation of intrastate and interstate mutual aid.
- Coordinate resources required for emergency repair of damaged public infrastructure and critical facilities.
- Implement and manage the FEMA Public Assistance Program.
- Conduct debris clearance along public roadways.
- Authorize and coordinate the closure of damaged state and local roadways.
- Repair and restore damaged public systems.
- Assist ESF 9 with stabilizing or demolishing damaged public and private structures to facilitate search and rescue operations for the public's health, safety and welfare.
- Initiate the emergency removal and sorting of debris from public and private property, and disposal of the debris at specified sites.
- Provide technical assistance and expertise regarding impacts to public infrastructure during a disaster, including flood mitigation, water management, structure integrity assessments, and impact assessments.

2.2 Activation – ESF#3

Any threat or incident requiring the activation of this Annex may be detected from a variety of sources. When any ESF#3 primary or support partner is apprised of a threat or incident, they will contact the GEMA/HS Communications Center with pertinent information.

During an emergency or disaster, the ESF#3 Coordinator will serve as the principle point of contact for operations associated with ESF#3. The ESF Coordinator will oversee all ESF#3 operations and reports to the SOC Chief. If a disaster warrants SOC activation, some or all of ESF#3 may be activated. The scope, scale, and magnitude of the threat/incident will dictate which primary agencies will assign personnel to the SOC, and the relevant support agencies that will be requested for support.

Resource requirements will be primarily determined by affected county Emergency Management Agency (EMA) Directors, working in concert with assigned GEMA/HS Field Coordinators, and the emergency coordinators of affected state agencies. Resource requests flow from the County EMA Director (or the GEMA/HS Field Coordinator acting on his/her behalf) or state agency to the SOC. Existing state resources, intrastate mutual aid, donations, GA VOAD and NGOs provide the initial source of personnel, vehicles, equipment, supplies and services to fulfill resource requests. Resource requests that exceed the capability of these sources may be fulfilled through state purchasing and contracting, interstate mutual aid (EMAC) or federal government assistance.

The ESF#3 Coordinator serves as the point of contact for requests for assistance for ESF#3 that are received by the GEMA/HS State Operations Center (SOC) and is responsible for delegating mission assignments to the appropriate ESF#3 partner agency. The partner agency then ensures mission assignment completion through direct support or by delegation to the appropriate support agency.

2.3 Organization

The ESF#3 Coordinator is the Georgia Department of Natural Resources.

The GEOP ESF#5 – Emergency Management contains information on the provision of assets and resources through the Emergency Management Assistance Compact (EMAC), private-sector or nongovernmental organization (NGO) procurement procedures, and requests for assistance to FEMA.

3.0 Assignment of Responsibilities

The assignment of responsibilities section establishes the organizations and agencies that will be relied upon to respond to a disaster or emergency situation. This section also includes tasks that these organizations and agencies are expected to perform.

3.1 ESF Coordinator

The Georgia Department of Natural Resources (DNR) serves as the coordinator for ESF#3 and will assume primary responsibility for coordination among ESF#3 primary and support agencies.

Georgia Department of Natural Resources

- Coordinates with appropriate agencies and organizations to ensure operational readiness.
- Develops and maintains Standard Operating Procedures (SOPs).
- Provides overall guidance concerning water supply matters, sewage treatment, and sewage disposal in conformance with regulatory requirements and with an overriding consideration for the protection of public health.
- Ensures essential needs for water are identified, along with measures for the conservation, distribution, and use of water.
- Ensures its divisions and district offices provide personnel, supplies, equipment and facilities at the request of the ESF#3 Coordinator.
- Develops policies for conservation, distribution, and use of water.
- Identifies, locates, and maintains a list of chemicals and/or stockpile chemicals for portability of water supply.
- Establishes and enforces sewage treatment and disposal standards.
- Participates in and/or conducts exercises and tests.
- Establishes priorities to repair damaged water and sewer systems, and coordinates the provision of temporary, alternate, or interim sources of water and sewer service.

- Identifies supporting products and services such as casing, pipes, pumps, valves, generators, cables, staff, and transportation to facilitate industry response.
- Implements requirements for water priorities and allocations.
- Assists water suppliers with obtaining specialized personnel, equipment and transportation to repair or restore water systems.
- Provides technical assistance on water and sewer systems.
- Advises local governments on building temporary oxidation lagoons for utilization of silt latrines and other expedients.
- Monitors repair and restoration of water and sewer systems.
- Maintains coordination with support agencies and organizations for emergency priorities, repair, and restoration.
- Monitor restoration operations until services are restored.
- Coordinates public information and provides updates for ESF#15 – External Affairs.
- Maintains financial records on personnel, supplies, and other resources utilized, and reports expenditures to GEMA/HS upon request.
- Coordinate with appropriate agencies and organizations to ensure operational readiness of engineering services.
- Provides, as necessary, technical expertise and personnel to save lives; protect health and safety; assist with clearance of debris in damaged areas; temporarily designate or construct access routes (roads, streets, bridges, ports, waterways, airfields and facilities) necessary for rescue personnel; provides technical assistance and evaluation for demolition of unsafe structures; provides engineering services, construction management and inspection services; and initiates emergency contracting as necessary.

3.2 Primary and Support Agencies

Georgia Department of Transportation

- Provides damage assessment information to the SOC Chief.
- Identifies and coordinates ESF staffing requirements appropriate to the emergency situation.
- Processes requests for state public works and engineering assistance by providing recommendations of assistance from support agencies, and presenting the most feasible recommendations to the SOC Chief for possible mission assignment.
- Collects information from support agencies and provide reports concerning emergency support operations in accordance with applicable procedures.
- Develops, maintains, and distributes this Annex in coordination with the GEMA/HS Planning Section.
- Removes or assists in the removal and disposal of debris, as appropriate, to provide emergency access to disaster areas or to assist in eliminating health and safety problems associated with debris.
- Prioritizes and performs emergency repairs to the state highway system.
- Provides status of state transportation systems in the disaster area.

- Assists local governments with emergency repairs to roadways to restore essential travel in the disaster area, when it is appropriate.
- Provides laboratory services.

American Red Cross

- Provides field personnel as needed for response operations.
- Shares damage assessment information as appropriate.

Board of Regents of the University System of Georgia

- Provides engineering equipment, laboratory services, personnel, and vehicles as needed for response operations.

Georgia Building Authority

- Provides personnel and expertise as needed for response operations.
- Provides site plans for all public structures impacted by significant damage.

Georgia Department of Administrative Services

- Provides available and obtainable public works and engineering resources in support of the ESF#3 missions.
- Provides public works and engineering technical and specialty support and coordination.
- Advises and/or assists in damage assessment for impacted structures.
- Assists in the locating of construction resources.
- Provides advisement regarding contract development, inspections, and management.

Georgia Department of Agriculture

- Provides engineering and contracting services, and the procurement of equipment to assist in emergency debris removal; demolition; temporary protection of roads and bridges; and temporary protection of essential public facilities, water supply, and sanitation services.
- Provides food services as needed for response operations.
- Provides laboratory services as needed for response operations.

Georgia Department of Community Affairs

- Provides spatial resources and mapping services, including existing land use maps and aerial photography.
- Coordinates the acquisition of public works and engineering resources among intrastate/interstate mutual aid, compact agreements, and GEMA/HS.

Georgia Department of Corrections

- Provides manpower as available to assist with debris removal and the clearing of public access areas.
- Provides transportation assets to assist in debris removal.

Georgia Department of Defense

- Provides laboratory services as needed for response operations.

Georgia Department of Labor

- Provides worker safety advice assistance, and policy support for debris removal, building demolition, and other activities in support of ESF#3.

Georgia Department of Public Health

- Provides situational awareness regarding water and wastewater needs at critical health care facilities.
- Provides septic tanks as needed for response operations.

Georgia Department of Natural Resources

- Provides boats and aircraft, as well as mobile communications, personnel, and vehicles as needed for response operations.

Georgia Environmental Finance Authority

- Provides personnel as needed for response operations.

Georgia Forestry Commission

- Provides debris removal equipment and services as needed for response operations.
- Provides equipment and personnel as needed for response operations.

Georgia Power

- Coordinates restoration of power to public health facilities, water and wastewater plants, and other critical public facilities.

Georgia Public Service Commission

- Acts as a liaison for public and private water, sewer, communications, and utilities coordinating groups.
- Obtains initial and updated damage reports for utility infrastructure from public and private agencies and organizations.
- Obtains emergency repair and restoration plans from public and private agencies and organizations.
- Obtains and distributes infrastructure repair status reports.

Georgia State Finance and Investment Commission

- Provides project management expertise and personnel as needed for response operations.

Georgia Voluntary Organizations Active in Disaster

- Provides teams of trained volunteers to carry out canvassing, needs assessment, information distribution, debris clearance, temporary roof repair, elimination of specified health/safety hazards, and other response and recovery activities in disadvantaged communities and for special needs residents.

3.3 Direction, Control, and Coordination

This section describes the framework for all direction, control, and coordination within the State of Georgia and other states.

3.3 A: ESF Coordination within State Operation Center

ESF# 3 will report all activities to the ESF#5 Situation Unit for inclusion in the development of incident action plans and situational reports. All public information reports regarding ESF#3 activities will be coordinated with ESF#15 – External Affairs.

When ESF#3 is activated, the Georgia Department of Natural Resources, with assistance from supporting departments and agencies, assesses and responds to requests for assistance with the management and/or maintenance of public infrastructure and systems, and planning or technical assistance from impacted local, state or federal agencies or other ESFs.

In addition to the SOC, ESF#3 may provide personnel to field operations established in Georgia, including but not limited to: Joint Field Offices (JFO), Joint Information Centers (JIC), Disaster Recovery Centers and any other incident facility established to meet operational demands for each particular incident requiring the activation of the GEOP.

3.3 B: Coordination of EMAC Request

The Emergency Management Assistance Compact (EMAC) is a national mutual aid agreement between the 50 states, Puerto Rico, the U.S. Virgin Islands and the District of Columbia. It is based on 13 Articles which have been enacted into state law by each state. In Georgia, EMAC is addressed in the O.C.G.A., Title 38, Chapter 3, Article 5.

States may only request assistance via EMAC when their governor has declared a state of emergency. EMAC requires that the state requesting assistance reimburse the state that provides the assistance. The Director of GEMA/HS is the EMAC Authorized Representative (AR) for the State of Georgia. The AR is tasked with the authority to commit and accept resources through EMAC partnerships. The AR may delegate this authority to the Operations Director, Deputy Operations Director and Finance Director of GEMA/HS. The GEMA/HS Logistics Program Manager is the designated contact (DC) for EMAC. In the absence of the Logistics Program Manager, the agency has identified alternate designated contacts. The DC is commonly referred to as the EMAC Coordinator. The DC coordinates EMAC operations and prepares the official EMAC Request for Assistance (commonly referred to as the REQ-A). When completed, the REQ-A becomes a contract between the requesting and assisting states for the provision of assistance in accordance with EMAC. When the SOC is activated, the Logistics Section Mutual Aid Unit coordinates and manages EMAC missions. This unit will be initially staffed with GEMA/HS personnel, but will likely be augmented by trained EMAC personnel from other states as soon as possible. This unit is also referred to as an EMAC “A” Team.

ESF# 3 will coordinate all EMAC requests with the GEMA/HS EMAC DC or the SOC Logistics Section Mutual Aid Unit, when the SOC is activated. No resource (personnel or equipment) may deploy to another state via EMAC until the REQ-A has been approved and signed by the ARs of the requesting and assisting states, and they have been provided a copy of the REQ-A, briefed and prepared for the mission. To facilitate obtaining any assistance Georgia may need via EMAC, state ESFs should identify their shortfalls in capability and where resources may be obtained to provide this capability. This may be accomplished via informal coordination with sister agencies in other states to determine if the needed resource is available for potential deployment to Georgia, its location and the point of contact for the resource. Such information is critical in expediting a request for assistance via EMAC. For more information on EMAC, contact the GEMA/HS EMAC Designated Contact at 404-635-7200.

3.3 C: ESF Activation, Exercise & Improvement Planning

GEMA/HS systematically coordinates and conducts event debriefings and compiles after action reports for any incident that calls for the activation of all or any portion of the GEOP. ESF#3 shall participate in this process when applicable. After Action Reports will document areas for improvement, resource shortfalls and corrective action planning requirements which will be incorporated into the GEOP, its annexes or ESF SOGs when applicable.

GEMA/HS conducts all exercises within the structure provided by the Homeland Security Exercise Evaluation Program (HSEEP). ESF#3 will participate in all exercise activities when applicable and will follow the HSEEP process to include active participation in planning and evaluation meetings, workshops and conferences.

3.3 D: Development of Standard Operating Guides

The GEMA/HS Planning Section has provided standard operating guide development templates and planning assistance to all ESFs listed in the GEOP. All ESFs will strive to develop operationally ready SOGs for inclusion in the GEOP. ESF#3 will meet as necessary to develop, review and refine SOGs that discuss specific operational processes and procedures.

3.3 E: Development of Resources Capability List

In conjunction with ESF#7 – Resource Support, ESF#3 – Public Works and Engineering will develop, review, refine and maintain lists of all resources currently available and under the control of the primary or support agencies listed in this plan. The development of these lists may be completed by several organizations and professional groups, which currently operate within this ESF. These resource lists should be compliant with the resource typing standards outlined in the National Incident Management System (NIMS).

4.0 ESF Annex Development and Maintenance

This Emergency Support Function Annex will be reviewed every two years and updated as required. In addition the document shall be evaluated for recommended revisions and corrective measures as an integral part of the Agency Exercise or Event After Action Reports /

Improvement Plans, as well as internal reviews that will follow the issuance of any Governor Executive Order or passage of legislation impacting the Agency.